

ASU Scottsdale Center for New Technology and Innovation Recommended Plant Palette

prepared February 2005

street trees

Live Oak (*Quercus virginiana*)

- **Sun Exposure:** full sun
- **Water:** moderate to ample
- **Growth Habit:** may reach 40' in height with a 30' spread
- **Soil:** prefers deep moist, enriched soil



Phoenix Thornless Mesquite (*Prosopis hybrid Phoenix*)

- **Sun Exposure:** full sun to part shade
- **Water:** little to moderate
- **Growth Habit:** up to 30-35' tall and wide
- **Soil:** tolerates most arid-climate soil types



Chinese evergreen elm (*Ulmus parvifolia*)

- **Sun Exposure:** part to full sun
- **Water:** best with deep periodic irrigation once established
- **Growth Habit:** can reach a height of 30' with a spread of about 40'
- **Soil:** prefers deep soil with good drainage



accent trees

Jacaranda (*Jacaranda mimosifolia*)

- **Sun Exposure:** full sun to open shade
- **Water:** soak root zone every month or two
- **Growth Habit:** spreads to 50' high and wide
- **Soil:** any soil



Purple Orchid Tree (*Bauhinia variegata*)

- **Sun Exposure:** full sun
- **Water:** flowers best with regular water
- **Growth Habit:** 20-30' high with equal spread
- **Soil:** tolerates most arid-climate soil types; performs best with rich soil



Chinese pistache (*Pistacia chinensis*)

- **Sun Exposure:** full sun
- **Water:** drought tolerant
- **Growth Habit:** moderately to 30' wide, 20' high
- **Soil:** tolerant of most soils



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open space/street trees

Honeylocust (*Gleditsia triacanthos 'inermis'*)

- **Sun Exposure:** full sun
- **Water:** moderate to ample; minimal once established
- **Growth Habit:** fast growing to 35' tall and 25-35' wide
- **Soil:** accepts most soils, performs best in deeper soils



Indian Rosewood (*Dalbergia sissoo*)

- **Sun Exposure:** full sun
- **Water:** moderate water- more in the summer
- **Growth Habit:** 20-30' tall with equal spread
- **Soil:** well draining soil



Evergreen pear (*Pyrus kawakamii*)

- **Sun Exposure:** full sun to afternoon shade
- **Water:** regular water
- **Growth Habit:** grows slowly to 15-20'
- **Soil:** most soils- prefers improved soils



Texas Ebony (*Ebenopsis ebano* was *P. flexicaule*)

- **Sun Exposure:** full sun
- **Water:** low water user
- **Growth Habit:** 15-20' high with equal spread
- **Soil:** tolerates most arid-climate soil types



Little leaf ash (*Fraxinus greggii*)

- **Sun Exposure:** full sun
- **Water:** moderate
- **Growth Habit:** grows moderately to 18' tall and 15' wide
- **Soil:** tolerant of most soils



Texas mountain laurel (*Sophora secundiflora*)

- **Sun Exposure:** Full sun to part shade
 - **Water:** soak root zone every month or two; more in dry season
 - **Growth Habit:** from 15-25' high; spreading 5-15' wide
 - **Soil:** best in deep, good quality soils
- Excellent year round foliage and springtime flowers attract butterflies.



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large shrubs

Baja fairy duster (*Calliandra californica*)

- **Sun Exposure:** full to reflected sun
- **Water:** low to moderate
- **Growth Habit:** up to 6' high with equal spread
- **Soil:** tolerant of most soils, prefers well drained soils



Red bird of paradise (*Caesalpinia pulcherrima*)

- **Sun Exposure:** full or reflected sun
 - **Water:** drought resistant; water every two weeks to maximize flowering
 - **Growth Habit:** grows 4-10' high; spreads to 4-6'
 - **Soil:** most soils with good drainage
- Striking floral display from spring to fall.



Narrow-leaf yellow bells (*Tecoma stans angustata*)

- **Sun Exposure:** full sun to part shade
 - **Water:** looks best with weekly watering during warm season
 - **Growth Habit:** upright 4 to 10 feet high and 3 to 8 foot spread
 - **Soil:** tolerant of various soil conditions
- Medium to large shrub with yellow trumpet-shaped flowers midspring into late fall



Bougainvillea (*Bougainvillea species*)

- **Sun Exposure:** performs best with full sun
- **Water:** moderate to ample; minimal once established
- **Growth Habit:** fast growing, prune back to train into a vine
- **Soil:** well draining soil



Cascalote (*Caesalpinia cacalaco*)

- **Sun Exposure:** full sun
- **Water:** quite drought tolerant, performs best with regular water
- **Growth Habit:** slowly to 15-18' tall and wide
- **Soil:** any with good drainage



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medium shrubs

Red Chihuahuan sage (*Salvia greggii*)

Sun Exposure: full or reflected sun to part shade

• **Water:** drought resistant, but requires weekly watering to bloom

Growth Habit: upright stems, 3 feet high and wide

• **Soil:** any soil with good drainage, except heavy clay

Tough evergreen shrub with bright red flower groups in early spring through late fall



Texas Ranger(*Leucophyllum frutescens 'Compacta'*)

• **Sun Exposure:** prefers full sun

• **Water:** low

• **Growth Habit:** to about 5' high and wide

• **Soil:** prefers well drained, but tolerates heavier soils



Chihuahuan sage (*Leucophyllum laevigatum*)

• **Sun Exposure:** full sun

• **Water:** little to moderate amounts

• **Growth Habit:** 4' tall and 5' wide

• **Soil:** alkaline soil



Rosemary (*Rosmarinus officinalis*)

Sun Exposure: full or reflected sun

• **Water:** water every month or two or more often during growing season

Growth Habit: 3 to 6 feet high and 3 to 8 feet wide

• **Soil:** most soils with good drainage

Evergreen shrub with aromatic, leathery leaves and intermittent lavender-blue flowers



Easter egg bush (*Eremophila racemosa bicolor*)

• **Sun Exposure:** full sun

• **Water:** low to moderate

• **Growth Habit:** 5' tall and wide

• **Soil:** requires well draining soil



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low shrubs/ groundcover

Angelita daisy (*Hymenoxys acaulis*)

- **Sun Exposure:** full sun
 - **Water:** water weekly during dry season to ensure best bloom
 - **Growth Habit:** grow to about 1' high and wide
 - **Soil:** most soils with good drainage
- A colorful and persistent perennial looks great in informal landscapes.



Desert Marigold (*Baileya multiradiata*)

- **Sun Exposure:** handles full exposure quite well
 - **Water:** water regularly during the hot season
 - **Growth Habit:** spreads equally to about 1' in diameter
 - **Soil:** does best with well draining soils
- This plant blooms for extended periods and requires little maintenance.



'Katie' ruellia (*Ruellia brittoniana*)

- **Sun Exposure:** full sun to half shade
- **Water:** little to moderate amounts
- **Growth Habit:** 1-2' tall and wide
- **Soil:** well drained soil



White 'Katie' ruellia (*Ruellia brittoniana 'blanca'*)

- **Sun Exposure:** full sun to half shade
- **Water:** little to moderate amounts
- **Growth Habit:** 1-2' tall and wide
- **Soil:** well drained soil



Pink 'Katie' ruellia (*Ruellia brittoniana 'rosa'*)

- **Sun Exposure:** full sun to half shade
- **Water:** little to moderate amounts
- **Growth Habit:** 1-2' tall and wide
- **Soil:** well drained soil



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sculptural accents

Twin-flowered agave (*Agave gemniflora*)

- **Sun Exposure:** full sun to half shade
- **Water:** little to moderate amounts
- **Growth Habit:** 3' tall and wide
- **Soil:** well drained alkaline soil



Red yucca (*Hesperaloe parviflora*)

- **Sun Exposure:** full sun
- **Water:** every two weeks or so during dry season to improve bloom period
- **Growth Habit:** 3-4' high with equal spread
- **Soil:** thrives in arid-climate soil types



Giant hesperaloe (*Hesperaloe funifers*)

- **Sun Exposure:** performs best with some filtered sun
- **Water:** drip irrigation; drought tolerant
- **Growth Habit:** 4-6' high with 10' tall flower stalks
- **Soil:** well draining soil is essential



Golden Barrel Cactus (*Echinocactus grusonii*)

- **Sun Exposure:** prefers filtered shade
 - **Water:** every month or two
 - **Growth Habit:** grows slowly to about 3' tall; 2' wide
 - **Soil:** does best in desert soil conditions
- This plant provides a bold sculptural form.



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open space/street trees

Mexican blue palm (*Brahea armata*)

- **Sun Exposure:** full sun to part shade
- **Water:** little to moderate
- **Growth Habit:** 20-25' tall with a crown spread of 8-10'
- **Soil:** tolerates most arid-climate soil types, prefers improved garden soil



Date Palm (*Phoenix dactylifera*)

- **Sun Exposure:** full sun to shade, thrives in heat
- **Water:** natural rainfall; recommend once per month for good ornamental quality
- **Growth Habit:** to 100ft, spread to 30ft; growth rate is slow, may take 15 years to attain 10ft
- **Soil:** somewhat adaptable, best in sandy well-drained



Canary Island date palm (*Phoenix canariensis*)

- **Sun Exposure:** full sun
- **Water:** infrequent deep irrigations
- **Growth Habit:** 40-60ft with frond spread of 20-40ft, slow growing reaching 10ft in 15 years
- **Soil:** uniform soil, either sand or loam okay



Cercidium floridum (Blue palo verde)

- **Sun Exposure:** reflected sun to part shade
- **Water:** soak the root zone every month or two
- **Growth Habit:** 15-30' high with equal spread
- **Soil:** needs well draining soil

